

Rev 1 p 9/20/09

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

#2

Date 5/18/2009

Contract ID 090123-X01 Job No. JOIO983
County Mississippi Original Bid Cost 9,272,909.08
Contractor Iron Mountain Construction By Paul Corr and Nick Hilton
Designed By MoDOT Phone 314 220 1167
VECP# 09-47 (to be completed by C.O.) VECF ☐ or VECF/PDU ☒

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages
IMCS proposes to crush and process the existing pavement for use as 18" Crushed Concrete Base material. The proposal is to place the crushed concrete pavement for the full width of the pavement, shoulders and provide daylighted slopes. This will result in eliminating the need for edge drains and outlet splash pads in the full depth paved areas. The estimated quantities shown on the attached spreadsheet is based on using this base type for 50% of the full depth paved sections, final quantities will be measured.

2. Estimate of reduction in construction costs. No Cost VECF

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.
No effect.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

5/20/2009

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

The impact would effect the concrete paving sequencing.

6-1-2009

(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A

(date and/or dates)

Additional Comments:

Re-cycling the existing pavement is beneficial to the project, it provides an equivalent base structure for the pavement and it promotes sustainability.

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:

I recommend approval of this proposal. There is a possibility of having enough ~~material~~ material construct only half of the full depth areas with 18" Crushed concrete base, therefore, only half of the quantity for full depth will be set up.

Brian Holt

Submitted By Resident Engineer

5/26/09

Date

Comments:

I concur with Brian's recommendation.

☒ Approval
Recommended

Mark Shelton by P. L. L. L.

5-27-09

☐ Rejection
Recommended

District Engineer

Date

Comments:

☒ Approval
Recommended

Mike McGee

6-24-09

☐ Rejection
Recommended

Federal Highway Administration

Date

Required for FHWA Full Oversight Projects

Comments:

☒ Approval

David D. Adams

6-26-09

☐ Rejection

State Construction and Materials Engineer BAW

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer,
Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

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Practical Design / VECP for Alternate Pavement Base

Plan Quantity

Line #	Description	Plan Quantity	Unit	Unit Bid	Extension
720	Permeable Base	24,324.00	SY	\$ 7.50	\$ 182,430.00
730	Type 1 Aggregate	33,205.00	SY	\$ 7.00	\$ 232,435.00
800	Underdrain	17,121.00	LF	\$ 4.24	\$ 72,593.04
810	Outlet Splash Pads	150.00	EA	\$ 320.00	\$ 48,000.00

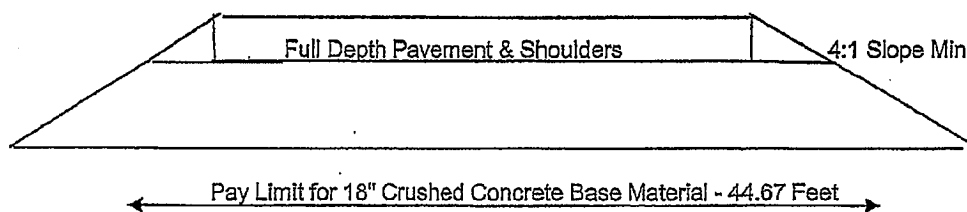
\$ 535,458.04

Draft Revised Quantities - In Full Depth Pavement areas

Line #	Description	Plan Quantity	Unit	Unit Bid	Extension
720	Permeable Base	12,162.00	SY	\$ 7.50	\$ 91,215.00
730	Type 1 Aggregate	16,602.50	SY	\$ 7.00	\$ 116,217.50
800	Underdrain	8,560.50	LF	\$ 4.24	\$ 36,296.52
810	Outlet Splash Pads	75.00	EA	\$ 320.00	\$ 24,000.00
	Crushed 18" Concrete Base *	19,516.67	SY	\$ 13.71	\$ 267,573.55

\$ 535,302.57

* includes Crushed Concrete base under the shoulder,



Type 1 Aggregate 33,205 SY at 38 feet wide =
 Crushed Concrete Base at 44.67 feet wide = 39,033 SY
 50% of the area = 19517.67 SY



<Felix.R.Gonzalez@dot.gov>

05/28/2009 06:52 AM

To <Brian.Williams@modot.mo.gov>,
<Brian.Holt@modot.mo.gov>
cc <David.Ballock@modot.mo.gov>,
<Eric.Krapf@modot.mo.gov>,
<John.Donahue@modot.mo.gov>,
bcc

Subject RE: Another VE Proposal for J0I0983

I am okay with this Value Engineering Proposal.

félix r. gonzález
federal highway administration
missouri division
transportation engineer
districts 7-8-9-10
573.638.2622

felix.r.gonzalez@dot.gov

"Every hour spent planning construction eliminates 100 hours of problems during construction"

- Steve Dewitt, Chief Engineer



Please consider the environment before printing this message.

From: Brian.Williams@modot.mo.gov [mailto:Brian.Williams@modot.mo.gov]

Sent: Thursday, May 21, 2009 12:08 PM

To: Brian.Holt@modot.mo.gov

Cc: David.Ballock@modot.mo.gov; Eric.Krapf@modot.mo.gov; Gonzalez, Felix <FHWA>;
John.Donahue@modot.mo.gov; Lynelle.Luther@modot.mo.gov

Subject: Re: Another VE Proposal for J0I0983

I am good with this concept.

Brian N
Holt/D10/MODOT

05/20/2009 09:59 AM

ToLynelle S Luther/D10/MODOT@MODOT, Brian A Williams/SC/MODOT@MODOT,
Felix.Gonzalez@fhwa.dot.gov

ccJohn P Donahue/SC/MODOT@MODOT, Eric F Krapf/D10/MODOT@MODOT, David S
Ballock/D10/MODOT@MODOT

SubjectAnother VE Proposal for J0I0983

Attached below is another VE proposal from Iron Mountain Construction Services for J0I0983. After discussions with John Donahue, I recommend approval of this no cost proposal.

This is the first draft with a revised draft to follow shortly. The only change will be with the quantities for Type 1 Aggregate, Under drains, and splash pads. I calculated a greater quantity and the contractor will

take another look at their quantities. Again, because of the quick turn around time, I am submitting for approval of the concept and will resend when the revision is made. It should still be a no cost proposal.

There may not be enough material available to do all of the full depth areas, so only half of the quantity will be use for now. The contractor is also obtaining concrete slabs from maintenance's pavement repair operations.

Brian Holt, PE
Resident Engineer
Sikeston Project Office
Office: 573-472-5325
Cell: 573-888-7035

----- Forwarded by Brian N Holt/D10/MODOT on 05/20/2009 09:50 AM -----

"Corr, Paul" <pcorr@fredweberinc.com>

05/19/2009 09:15 AM

To: <Brian.Holt@modot.mo.gov>

CC: "Hilton, Nicholas" <nrhilton@fredweberinc.com>

Subject: FW: Scanned image from MX-M550N

Brian,

If the attached are okay, I will officially submit. Would you like a cover letter also or just the forms?

Thanks for your patience

PC

-----Original Message-----

From: sgcon02@fredweberinc.com [mailto:sgcon02@fredweberinc.com]

Sent: Tuesday, May 19, 2009 9:11 AM

To: Corr, Paul

Subject: Scanned image from MX-M550N

DEVICE NAME: Not Set
DEVICE MODEL: MX-M550N
LOCATION: Not Set

FILE FORMAT: PDF MMR (G4)
RESOLUTION: 300dpi x 300dpi

Attached file is scanned image in PDF format.

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<http://www.adobe.com/>

[attachment "sgcon02@fredweberinc.com_20090519_091128.pdf" deleted by Brian A Williams/SC/MODOT]

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

The contractor proposes to utilize the existing concrete pavement by crushing it and use as 18" base material. By doing this, it will also eliminate some of the quantities for permeable base, type 1 aggregate, underdrains, and outlet splash pads. This is an overall no cost practical design VE proposal.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
